

WHAT IS CLAIMED IS:

1. A measuring machine comprising a base, a guide rail provided on the base and having a guide surface thereon, and a movable body slidably provided via an air bearing device on the guide surface of the guide rail, wherein said guide rail is monolithically
5 formed with said base, and a coating film for rust prevention is formed on said guide surface.
2. The measuring machine according to claim 1, wherein said coating film is made of ceramics.
3. The measuring machine according to claim 1, wherein said coating film is formed
10 by means of plasma spray-coating.
4. The measuring machine according to claim 1, wherein a flat guide surface is formed on a surface of said base, and a guide rail is monolithically formed with said base on the guide surface.
5. A measuring machine according to claim 1, wherein said guide rail has two guide
15 surfaces adjoining each other with a ridge line therebetween.
6. The measuring machine according to claim 5, wherein one of the two guide surfaces of said guide rail is a horizontal one, and the other is a vertical one.
7. A measuring machine according to claim 6, wherein a pair of guide rails are provided in parallel to each other, the horizontal guide surfaces of the guide rails are
20 provided on the same plane, and the vertical guide surfaces of the guide rails are provided at positions opposed to each other.
8. The measuring machine according to claim 1, wherein a measuring probe and columns supporting the probe are provided on said base, and said movable body is a table for placing thereon an object to be measured with said measuring probe.
- 25 9. The measuring machine according to claim 8, wherein said measuring machine is a three-dimensional measuring machine for carrying out three-dimensional measuring with said base and said movable body.